

# REHA 4007 DERMATOLOGY AND GERONTOLOGY

**Credit Points** 10

**Legacy Code** 401116

**Coordinator** Sean Lanting ([https://directory.westernsydney.edu.au/search/name/Sean Lanting/](https://directory.westernsydney.edu.au/search/name/Sean%20Lanting/))

**Description** This subject builds on previous clinical and theoretical subjects to develop in-depth knowledge in dermatology and gerontology. Foundations of dermatology including the function and structure of the skin, assessment, differential diagnosis, aetiological factors and the management of disorders of the skin, with particular emphasis on common foot conditions and co-morbidities will be investigated. Population's trends, aging norms, pathology, co-morbidities and attitudes to aging will be explored. Particular focus will be placed on pathophysiology, mechanics, diagnosis and treatment options to maintain normal daily activities.

**School** Health Sciences

**Discipline** Podiatry

**Student Contribution Band** HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 4 subject

**Pre-requisite(s)** NATS 2008 AND  
REHA 3027 AND  
REHA 2003

**Incompatible Subjects** REHA 7024 - Podiatric Techniques 3A and REHA 7025 - Podiatric Techniques 3B

**Restrictions** Students must be enrolled in 4708 - Bachelor of Podiatric Medicine or 4709 - Bachelor of Podiatric Medicine (Honours).

**Assumed Knowledge**

All core subjects are assumed knowledge.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Demonstrate comprehensive knowledge and understanding of the aetiology, pathology, clinical presentation and development of dermatological disorders of particular relevance to podiatric practice.
2. Discuss clinical presentation of dermatological conditions relevant to their possible pathological bases.
3. Differentially diagnose dermatological disorders and discuss the range of treatment options available with an emphasis on those disorders of particular relevance to podiatric practice.
4. Review the pharmaceutical agents that are available for the treatment of skin conditions, including proprietary and generic identifications and constituent ingredients.
5. Evaluate those dermatological conditions which fall outside the scope of podiatry and make referrals to other health care practitioners as necessary.

6. Discuss common medical conditions and co-morbidities in the aged population and their relevance to podiatry and interdisciplinary care.
7. Distinguish between normal age related changes and pathological conditions (physical and psychological) that may occur in the aged population.
8. Review pharmacokinetic and pharmacodynamic variations in different populations, and evaluate the impact on prescription drugs with particular reference to polypharmacy and other related circumstances.
9. Demonstrate podiatric techniques in the management of common podiatric conditions in the aged.

## Subject Content

A). Dermatology

1. Dermatitis
  - allergic contact
  - Photoallergic
  - primary contact
  - causes and management
2. Eczema
  - Discoid
  - Venous stasis
  - Atopic
3. Disorders of keratinisation
  - Pemphigus
  - Pemphigoid
  - Epidermolysis bullosa; simplex and complex
  - Paposquamous disorders
  - Psoriasis
  - Pustular, Psoriasis
  - Keratoderma
  - Lichen planus
  - Pityriasis rubra pilaris
  - Palmoplantar keratodermas
  - Diffuse Palmoplantar Keratoderma
  - Punctate Keratoderma
  - Progressive Keratoderma
  - Striate Keratoderma
  - Mal de meleda
  - Papillon-LeFevre syndrome
  - Ichthyosis
4. Neoplasia
  - benign and / or Malignant
  - differentiation, signs and Symptoms
5. Infections (skin and nail)
  - mycotic
  - Onychomycosis
  - Paronychia
  - chronic hyperkeratosis Tinea pedis
  - Acute vesicular Tinea pedis
  - Intertriginous Tinea pedis
  - treatment and management
6. Bacterial
  - Aerobic and Anaerobic
  - Diagnosis and differentiation
  - local management methods
  - systemic drug therapy
  - Mycobacterium
7. Viral
  - human papova virus
  - verrucae
  - Molluscum contagiosum
  - Epidermodysplasia verruciformis
  - topical Vs systemic treatment

## 8. Miscellaneous skin conditions

- Erythroderma
- Urticaria
- Insect bites
- Herpes
- Scabies
- common infectious diseases of childhood
- manifestations of systemic disorders

## B). Gerontology

## 1. Introduction to gerontology

- definitions, populations Trends, impact on health care resources, funding and policies and relevance for podiatrists
- attitudes to ageing - exploring our own attitudes, preconceptions, identifying and exploring community, societal and ethnological Trends in attitude development and display

## 2. Theories of ageing, current trends in theoretical development

- molecular, system level and Cellular theories

## 3. Review an in-depth study of the physiological and pathophysiological understandings of the biology of ageing, including:

- Musculoskeletal system, The skin and its integuments, gastrointestinal, Endocrine, Respiratory, cardiovascular and Nervous system

## 4. Ageing and human locomotion

- Age related changes
- changes related to common systemic pathologies
- Biomechanical consequences and treatment strategies

## 5. Common medical problems, including:

- cerebral syndromes, Parkinson's disease and Parkinsonian syndromes, bone disease and degeneration, arthropathies, Traumatic events, including fractures, Nutritional disorders and deficits

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Final Exam	2 hours	50	N	Individual
Practical Exam	1 hour	20	N	Individual
Case Study	10 minutes	30	N	Individual

Teaching Periods

## Summer A (2022)

### Campbelltown

#### Day

**Subject Contact** Sean Lanting ([https://directory.westernsydney.edu.au/search/name/Sean Lanting/](https://directory.westernsydney.edu.au/search/name/Sean%20Lanting/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=REHA4007\\_22-SUA\\_CA\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=REHA4007_22-SUA_CA_D#subjects))

## 1st Half (2023)

### Campbelltown

#### On-site

**Subject Contact** Steven Walmsley ([https://directory.westernsydney.edu.au/search/name/Steven Walmsley/](https://directory.westernsydney.edu.au/search/name/Steven%20Walmsley/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=REHA4007\\_23-1H\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=REHA4007_23-1H_CA_1#subjects))